

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070119\  
 Data File : VU033100.D  
 Acq On : 01 Jul 2019 09:06  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05043

Quant Time: Jul 02 04:15:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jun 28 02:43:25 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 183269   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 185579   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 95449    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 45894    | 36.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 73.28%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 42415    | 42.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 84.92%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 113550   | 45.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.00%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 110618   | 106.11   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 106.11% |
| 24) Chloroform-d               | 4.64    | 84    | 122496   | 50.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.62% |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 83557    | 51.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.04% |
| 32) Benzene-d6                 | 5.33    | 84    | 212581   | 43.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.88%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 73408    | 47.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.26%  |
| 41) Toluene-d8                 | 7.56    | 98    | 198279   | 43.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.54%  |
| 43) trans-1,3-Dichloropropene- | 7.84    | 79    | 36140    | 45.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.16%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 64632    | 89.82    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 89.82%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.42   | 84    | 117106   | 49.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.32%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 85474    | 46.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.56%  |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 98524  | 53.221  | ug/L 100 |
| 3) Chloromethane               | 1.33 | 50  | 86319  | 51.446  | ug/L 100 |
| 5) Vinyl chloride              | 1.40 | 62  | 85582  | 51.424  | ug/L 99  |
| 6) Bromomethane                | 1.62 | 94  | 51819  | 52.914  | ug/L 98  |
| 8) Chloroethane                | 1.69 | 64  | 52533  | 54.837  | ug/L 97  |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 127053 | 54.416  | ug/L 98  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 66362  | 54.188  | ug/L 96  |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 58947  | 51.076  | ug/L 87  |
| 13) Acetone                    | 2.31 | 43  | 159614 | 110.851 | ug/L 97  |
| 14) Carbon disulfide           | 2.47 | 76  | 178169 | 48.788  | ug/L 100 |
| 15) Methyl Acetate             | 2.61 | 43  | 89078  | 54.576  | ug/L 98  |
| 16) Methylene chloride         | 2.69 | 84  | 72011  | 53.175  | ug/L 96  |
| 17) trans-1,2-Dichloroethene   | 2.97 | 96  | 63054  | 50.382  | ug/L 97  |
| 18) Methyl tert-butyl Ether    | 2.99 | 73  | 213615 | 53.162  | ug/L 98  |
| 19) 1,1-Dichloroethane         | 3.43 | 63  | 132391 | 55.487  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 4.22 | 96  | 73038  | 53.570  | ug/L 96  |
| 22) 2-Butanone                 | 4.25 | 43  | 167307 | 112.105 | ug/L 97  |

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 MSVOA\_U  
 ClientSampleId :  
 VSTD05043

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 Quant Title : VOC Analysis  
 QLast Update : Fri Jun 28 02:43:25 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.54  | 128  | 39572    | 55.637  | ug/L  | 95       |
| 25) Chloroform                  | 4.66  | 83   | 138462   | 56.273  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.39  | 62   | 118186   | 58.469  | ug/L  | 99       |
| 29) Cyclohexane                 | 4.99  | 56   | 107444   | 49.584  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane       | 4.90  | 97   | 122446   | 54.157  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 5.13  | 117  | 110928   | 53.921  | ug/L  | 99       |
| 33) Benzene                     | 5.38  | 78   | 278934   | 52.175  | ug/L  | 100      |
| 34) Trichloroethene             | 6.18  | 95   | 74858    | 52.407  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.41  | 83   | 112478   | 50.943  | ug/L  | 96       |
| 37) 1,2-Dichloropropane         | 6.42  | 63   | 78137    | 53.283  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.75  | 83   | 107692   | 54.614  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.26  | 75   | 115495   | 50.552  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.45  | 43   | 246430   | 105.255 | ug/L  | 97       |
| 42) Toluene                     | 7.63  | 91   | 307199   | 53.110  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.87  | 75   | 114708   | 53.454  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 8.06  | 97   | 72180    | 52.882  | ug/L  | 99       |
| 46) Tetrachloroethene           | 8.22  | 164  | 61156    | 52.250  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.35  | 43   | 213776   | 103.488 | ug/L  | 100      |
| 49) Dibromochloromethane        | 8.47  | 129  | 87687    | 53.290  | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.58  | 107  | 79191    | 52.243  | ug/L  | 98       |
| 51) Chlorobenzene               | 9.11  | 112  | 197065   | 51.774  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.24  | 91   | 335758   | 52.441  | ug/L  | 100      |
| 53) m,p-Xylene                  | 9.37  | 106  | 125942   | 52.136  | ug/L  | 97       |
| 54) o-xylene                    | 9.77  | 106  | 122840   | 52.072  | ug/L  | 96       |
| 55) Styrene                     | 9.78  | 104  | 216404   | 52.878  | ug/L  | 95       |
| 56) Isopropylbenzene            | 10.16 | 105  | 330004   | 51.908  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.45 | 83   | 125646   | 50.872  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.49 | 75   | 103866   | 53.073  | ug/L  | 100      |
| 61) Bromoform                   | 9.95  | 173  | 66558    | 53.403  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.41 | 146  | 153784   | 51.834  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.50 | 146  | 159745   | 52.129  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.87 | 146  | 158636   | 52.367  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.65 | 75   | 29013    | 50.201  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 12.88 | 180  | 123498   | 51.806  | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene      | 13.50 | 180  | 97544    | 47.554  | ug/L  | 100      |
| 69) Naphthalene                 | 13.74 | 128  | 261895   | 41.526  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.98 | 180  | 107534   | 49.521  | ug/L  | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

